Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in

the application:

**Listing of Claims:** 

1. (Original) A method of fabricating a semiconductor device having a triple

LDD (lateral diffused dopants) structure, comprising:

forming a gate structure on a surface of a semiconductor substrate, wherein

said gate structure includes a first vertical surface and a second vertical surface;

forming a first spacer adjacent to said first vertical surface and a second

spacer adjacent to said second vertical surface, wherein said first spacer has a first

thickness and a second thickness that is greater than said first thickness and that

abuts said first vertical surface, and wherein said second spacer has a third

thickness and a fourth thickness that is greater than said third thickness and that

abuts said second vertical surface; and

performing an implant process to form said triple LDD structure for a drain

and a source of said semiconductor device in said semiconductor substrate.

2. (Original) The method as recited in Claim 1 further comprising:

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performing a silicidation process such that a silicide is formed on a horizontal surface of said gate structure, a first upper portion of said first vertical surface, and a

second upper portion of said second vertical surface.

3. (Original) The method as recited in Claim 1 wherein said step of forming

said first and second spacers comprises:

depositing a first mask on said surface and said gate structure;

depositing a second mask on said surface and said gate structure;

performing a first plasma etch process to remove substantially said second

mask;

performing a second plasma etch process to remove substantially said first

mask;

performing a third plasma etch process to remove completely said second

mask such that a remaining portion of said first mask defines said first and second

spacers.

4. (Original) The method as recited in Claim 3 wherein said first plasma etch

process uses a first plasma that has a first etch rate with respect to said first mask

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and a second etch rate with respect to said second mask, and wherein said second etch rate is substantially greater than said first etch rate.

- 5. (Original) The method as recited in Claim 3 wherein said second plasma etch process uses a second plasma that has a first etch rate with respect to said first mask, a second etch rate with respect to said second mask, and a third etch rate with respect to said gate structure, and wherein said first etch rate is substantially greater than said second etch rate and said third etch rate.
- 6. (Original) The method as recited in Claim 3 wherein said third plasma etch process uses a third plasma that has a first etch rate with respect to said first mask, a second etch rate with respect to said second mask, and a third etch rate with respect to said gate structure, and wherein said second etch rate is substantially greater than said first etch rate and said third etch rate.
- 7. (Original) The method as recited in Claim 3 wherein said first mask is silicon nitride.

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- 8. (Original) The method as recited in Claim 3 wherein said second mask is silicon dioxide.
- 9. (Original) The method as recited in Claim 1 wherein said implant process is an ion implant process.
- 10. (Original) The method as recited in Claim 1 wherein said semiconductor device is a MOSFET (metal oxide semiconductor field effect transistor).
- 11. (Original) A method of fabricating a semiconductor device having a triple LDD (lateral diffused dopants) structure, comprising:

forming a gate structure on a surface of a semiconductor substrate, wherein said gate structure includes a first vertical surface and a second vertical surface;

depositing a first mask on said surface and said gate structure;

depositing a second mask on said surface and said gate structure;

performing a first plasma etch process to remove substantially said second

mask;

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performing a second plasma etch process to remove substantially said first

mask;

performing a third plasma etch process to remove completely said second

mask such that a remaining portion of said first mask defines a first spacer adjacent

to said first vertical surface and a second spacer adjacent to said second vertical

surface, wherein said first spacer has a first thickness and a second thickness that is

greater than said first thickness and that abuts said first vertical surface, and wherein

said second spacer has a third thickness and a fourth thickness that is greater than

said third thickness and that abuts said second vertical surface; and

performing an implant process to form said triple LDD structure for a drain

and a source of said semiconductor device in said semiconductor substrate.

12. (Original) The method as recited in Claim 11 further comprising:

performing a silicidation process such that a silicide is formed on a horizontal

surface of said gate structure, a first upper portion of said first vertical surface, and a

second upper portion of said second vertical surface.

(Original) The method as recited in Claim 11 wherein said first plasma

etch process uses a first plasma that has a first etch rate with respect to said first

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mask and a second etch rate with respect to said second mask, and wherein said

second etch rate is substantially greater than said first etch rate.

14. (Original) The method as recited in Claim 11 wherein said second plasma

etch process uses a second plasma that has a first etch rate with respect to said first

mask, a second etch rate with respect to said second mask, and a third etch rate

with respect to said gate structure, and wherein said first etch rate is substantially

greater than said second etch rate and said third etch rate.

15. (Original) The method as recited in Claim 11 wherein said third plasma

etch process uses a third plasma that has a first etch rate with respect to said first

mask, a second etch rate with respect to said second mask, and a third etch rate

with respect to said gate structure, and wherein said second etch rate is substantially

greater than said first etch rate and said third etch rate.

16. (Original) The method as recited in Claim 11 wherein said first mask is

silicon nitride.

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- 17. (Original) The method as recited in Claim 11 wherein said second mask is silicon dioxide.
- 18. (Original) The method as recited in Claim 11 wherein said implant process is an ion implant process.
- 19. (Original) The method as recited in Claim 11 wherein said semiconductor device is a MOSFET (metal oxide semiconductor field effect transistor).
  - 20. (Withdrawn) A semiconductor device comprising:
  - a drain having a triple LDD (lateral diffused dopants) structure;
  - a source having a triple LDD (lateral diffused dopants) structure;
- a gate structure including a first vertical surface, a second vertical surface, and a horizontal surface; and
- a silicide formed on said horizontal surface, a first upper portion of said first vertical surface, and a second upper portion of said second vertical surface.

AMD-H0552 Serial No. 10/618,514 Examiner: KEBEDE, B. Group Art Unit: 2823 21. (Withdrawn) The semiconductor device as recited in Claim 20 wherein said semiconductor device is a MOSFET (metal oxide semiconductor field effect transistor).

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